

### **Abstract**

The invention relates to statin compounds, and it discloses novel small molecule compounds, i.e., huvastatins, which are classified into I, II, and III. The invention also provides the preparation methods thereof and the formulations comprising the huvastatin as  
5 active ingredient. The present compounds can be used at lower dosage compared to the existing statin compounds, and also can help to control the desired blood lipid levels of the patients with hyperlipidemia. Huvastatin of the invention exhibits suitable hydrophilicity, strong potency and therapeutical effect for reducing lipid levels, and lower dosage.